In the Claims

The status of claims in the case is as follows:

1   1.   [Currently amended] A collaboration space including a
2   plurality of rooms in a hierarchical structure with access
3   control list control on rooms and access control list
4   control on forward pointers to child rooms, comprising:

5   a place comprising a plurality of ~~rooms, each room being a~~
6   ~~database~~ subrooms, each subroom being an independent
7   entity belonging to said place,

8   said place having a first data note including a
9   directory of members of said place and

10   each subroom within said place having a data note
11   associated therewith containing an access control list
12   of members selected exclusively from said directory of
13   members by a member of said place having manager or
14   author authority with respect to said subroom for
15   specifying users of said place authorized to access
16   ~~said room~~ said subroom;

17   forward and reverse pointers for linking ~~said rooms~~ said

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18   subrooms, each said forward pointer to a child room

19   including indicia identifying said child room, indicia

20   specifying the address location of the ~~database~~ entity

21   forming said child room, and a readers field for providing

22   access control list control on said forward pointer;

23   said readers field being a members object for identifying

24   those members of said subset of members of said place

25   authorized to access ~~said room~~ a parent subroom that are

26   also authorized to access a child subroom and for each

27   member of said subset of members a level of authorization;

28   and

29   a document readers field for a document containing data in

30   said subroom being a members object for identifying a subset

31   of members of said place authorized to access a subroom who

32   are also authorized to access said document.

1   2.   [Original] The collaboration space of claim 1, said levels

2   of authorization including manager, author, and reader.

1   3.   [Currently amended] A collaboration space, comprising:

2   a place comprising a plurality of rooms in a hierarchical

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3   structure linked by forward and backward pointers;

4   a member directory for said place identifying users
5   authorized to enter said place;

6   each said room comprising one or more pages, and for each
7   said room a members object for identifying a subset of
8   members of said place authorized to access said room and for
9   each member a level of authorization, each member of said
10   subset of members being a user authorized in said member
11   directory to enter said place;

12   said rooms including a parent room and a child room, and
13   said pointers comprising forward and backward pointers for
14   enabling the security of each said room to be independently
15   managed, said forward pointers including indicia identifying
16   said child room, indicia specifying the address location of
17   the database forming said child room, and a readers field
18   for providing access control list control on said forward
19   pointer, said readers field for identifying those members of
20   said subset of members of said place authorized to access a
           parent room that are also authorized to access a child room.

1   4.   [Previously presented] The collaboration space of claim 3,
2   said readers field including an access authority for each reader
3   authorized to enter said room selectively as manager, author or

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4   manager.

1   5.   [Previously presented] The collaboration space of claim 3,

2   each said forward pointer being a secure pointer by carrying the

3   same level of security as the child room to which it points.

1   6.   [Previously presented] The collaboration space of claim 5,

2   each said forward pointer carrying in said readers field the same

3   security as that of the subroom to which it points.

1   7.   [Previously presented] The collaboration space of claim 6,

2   further comprising a display for presenting to a specific user

3   viewing a parent room a listing of its subrooms, said listing

4   including for said specific user only those subrooms for which

5   said readers field in said forward pointer includes an entry

6   authorizing access by said specific user.

1   8.   [Currently amended] ~~A database~~ An access control system for

2   controlling user access to forms and documents a collaboration

3   space organized in a hierarchical structure of parent rooms and

4   child rooms containing said forms and documents , comprising:

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5   an access control list for specifying users who can ~~are~~

6   members of said collaboration space ~~or cannot access said~~

7   ~~database~~;

8   for users authorized to access said ~~database~~ collaboration

9   space, said access control list further specifying access

10   levels and roles determining [[the]] specific actions said

11   users are authorized to perform, said roles including

12   reader, author, and manager;

13   a form selectively including a form access list;

14   ~~said database~~ a room in said collaboration space including

15   ~~one or more documents~~ at least one document created from

16   said form;

17   a forward ~~pointers~~ pointer linking said form to said

18   ~~documents and reverse pointers linking said documents~~

19   document and a reverse pointer linking said document back to

20   said form;

21   said form access list identifying a subset of users who are

22   members of said collaboration space who are authorized to

23   read documents created from said form;

24   each said forward pointer to a document including indicia

25   identifying said document, indicia specifying the address

26   location of said document, and a readers field for providing

27   access control list control on said forward pointer

28   including a document access field selectively including for

29   each user authorized to access said document indicia

30   specifying whether said authorized user can read or modify

31   said document; users identified in any said form access list

32   for said form from which said document was created being

33   included in said readers field;

34   entries in said readers field granting authorization to an

35   individual user equal to or less than the authorization for

36   said individual user in said access control list; and

37   entries in said authors field selectively granting

38   authorization to a user authorized as an author in said

39   access control list to edit a document which said author

40   creates.

1   9.   [Currently amended] A method for controlling access to rooms

2   within a collaboration place, comprising the steps of:

3   maintaining for said collaboration place an access control

4   list identifying those users authorized to enter said place;

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5   providing forward and reverse pointers linking said rooms in

6   a hierarchical structure within said place, said forward

7   pointers including indicia identifying a child room, indicia

8   specifying the address location of the database forming said

9   child room, and a readers field for providing access control

10   list control on said forward pointer, said readers field

11   exclusively specifying a subset of said users authorized to

12   enter said place; and

13   displaying a parent room to a specific user, said parent

14   room including a list of children rooms for which said

15   readers fields on said forward pointers authorize said

16   specific user access.

1   10.   [Currently amended] A method for creating a child room

2 within a collaboration place data base, comprising the steps of:

3   providing for said collaboration place data base a first

4   access control list identifying users authorized to access

5   said data base;

6   providing for said child room a back pointer to a parent

7   room; and

8   providing at said parent room for said child room a forward

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9   pointer from said parent room to said child room, said

10   pointer including indicia identifying said child room,

11   indicia specifying the address location of the database

12   forming said child room, and a readers access field listing

13   a subset of users in said first access control list who are

14   users authorized to access said child room for providing a

15   second access control list specific to said forward pointer;

16   initially including in said readers access field for a child

17   room created from a form users identified in a form access

18   list identifying users authorized to read rooms created from

19   said form; and

20   limiting reader access in said readers access field to said

21   child room for a specific user to no more than the access

22   granted said specific user in said first access control list

11.   [Canceled]

12.   [Canceled]

1   13.   [Currently amended]   A program storage device readable by a

2   machine, tangibly embodying a program of instructions executable

3   by a machine to perform method steps for controlling access to

4   rooms within a collaboration place, said method steps comprising:

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5   maintaining for said collaboration place a first access

6   control list identifying those users authorized to enter

7   said place;

8   providing forward and reverse pointers linking said rooms

9   within said place, said forward pointers including indicia

10   identifying a child room, indicia specifying the address

11   location of the database forming said child room, and a

12   second access control list including a ~~having a~~ readers

13   field specifying each user having manager, author, and

14   reader access to said child room, said readers field

15   exclusively specifying a subset of said users authorized to

16   enter said place; and

17   displaying a parent room to a specific user, said parent

18   room including a list of children rooms for which said

19   readers fields on said forward pointers authorize said

20   specific user access.

1   14.   [Canceled]

1   15.   [Currently amended] A computer program product ~~or computer~~

2   ~~program element~~ for controlling access to rooms within a

3   collaboration place ~~according to the steps of~~ comprising:

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4   a computer readable medium;

5   first program instructions for maintaining for said
6   collaboration a first access control list identifying those
7   users authorized to enter said place;

8   second program instructions for providing in a [[child]]
9   parent room second access control list identifying a subset
10   of those user authorized to enter said place who are also
11   authorized to enter said [[child]] parent room with manager,
12   author, or user access;

13   third program instructions for providing forward and reverse
14   pointers linking said rooms parent room with a child room in
15   a double-linked list within said place, said forward
16   pointers having a readers field providing a third access
17   control list on said forward pointer, said third access
18   control list providing access to said child room equivalent
19   for those members who are included in [[to]] said second
20   access control list who are also authorized to access said
21   child room;

22   fourth program instructions for displaying a parent room to
23   a specific user, said parent room including on said forward
24   pointers a list of children rooms for which said readers
25   fields authorize said specific user access; and wherein

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26   said first, second, third, and fourth program instructions

27   are recorded on said computer readable medium.